

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	47492	"429"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/20 07:23
S2	46330	S1 not (DMFC direct adj methanol adj fuel adj cell)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 11:20
S3	3	S1 and highly adj integrated adj (DMFC direct adj methanol adj fuel adj cell) not S2	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 11:02
S4	12	S1 and integrated adj (DMFC direct adj methanol adj fuel adj cell) not S2	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 11:04
S6	83	S1 and resin and polymer\$3 adj material not S2	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 11:18
S7	3	S1 and (Cu copper) adj3 substrate same (cu copper) adj3 (layer coat\$3 laminat\$3) not S2	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 11:20
S8	46175	S1 not (DMFC direct adj methanol adj fuel adj cell methanol adj fuel adj cell)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 11:20
S9	3	S1 and (Cu copper) adj3 substrate same (cu copper) adj3 (layer coat\$3 laminat\$3) not S8	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 11:20
S10	0	S1 and (Cu copper) adj3 substrate same (cu copper) adj3 (layer coat\$3 laminat\$3) and methanol not "10"	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 11:22
S11	35619	S1 not fuel adj cell	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 11:22
S12	6	S1 and (Cu copper) adj3 substrate same (cu copper) adj3 (layer coat\$3 laminat\$3) and methanol not S11	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 11:30
S13	10	("4294891" "5641585" "5723228" "6127058" "6312846" "6387559" "6497975" "6541149" "6638654" "6641948").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 11:32
S14	25	("3554803"   "4769296"   "5069985"   "5190834"   "5686197"   "5783324"   "5989741").PN. OR ("6127058").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 11:33

## EAST Search History

S15	14	("0409365"   "3554803"   "3716414"   "4623596"   "4699853").PN. OR ("5069985"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 11:45
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# EAST Search History

S16	235	("2852554"   "3498844"   "3507702"   "3528858"   "3554803"   "3623913"   "3808534"   "3823358"   "3964930"   "3969145"   "3975913"   "4024036"   "4035551"   "4130693"   "4142024"   "4178418"   "4185131"   "4192906"   "4219443"   "4276355"   "4287232"   "4435252"   "4463065"   "4469579"   "4476198"   "4478917"   "4500612"   "4510211"   "4562124"   "4598028"   "4629537"   "4647359"   "4648955"   "4661411"   "4670702"   "4686158"   "4702971"   "4724191"   "4728584"   "4749632"   "4755376"   "4767518"   "4769296"   "4769297"   "4770955"   "4795536"   "4795683"   "4797185"   "4797190"   "4804592"   "4816036"   "4818637"   "4818735"   "4824741"   "4826741"   "4826742"   "4847172"   "4849253"   "4851303"   "4863813"   "4876115"   "4883497"   "4894355"   "4927793"   "4943494"   "4948680"   "4973530"   "4973531"   "4985315"   "4988582"   "4994331"   "5035961"   "5035962"   "5037525"   "5045414"   "5047298"   "5049459"   "5059497"   "5069985"   "5069987"   "5084144"   "5106706"   "5114803"   "5122425"   "5130210"   "5132193"   "5143801"   "5149601"   "5154986"   "5154987"   "5162167"   "5164060"   "5169731"   "5176967"   "5186806"   "5187025"   "5188910"   "5190834"   "5192627"   "5200278"   "5200279"   "5213911"   "5217822"   "5219673"   "5223353"   "5232794"   "5234722"   "5234777"   "5242764"   "5244753"   "5246792"   "5248566"   "5252410"   "5256499"   "5262249"   "5264299"   "5266419"   "5266421"   "5270131"   "5272017"   "5273838"   "5279906"   "5281490"   "5286579"   "5290323").PN. OR ("5290642"   "5292599"   "5292600"   "5298235"   "5302269"   "5304430"   "5306574"   "5308712"   "5312700"   "5316869"   "5316871"   "5330859"   "5330860"   "5336570"   "5338622"   "5342704"   "5342705"   "5344721"   "5346780"   "5350641"   "5350643"	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 11:47
5/29/2006 2:31:37 PM	C:\Documents and Settings\AFChefmeier\My Documents\EAST\Workspaces\10709921.wsp					Page 3

## EAST Search History

S17	47492	"429"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 13:24
S18	35619	S17 not fuel adj cell	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 13:24
S19	17	S17 and etch\$4 with (cu copper) not S18	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 15:02
S20	8	("20020150804"   "4499663"   "4799936"   "5290642"   "5330859"   "5770326"   "5980813"   "6312846").PN. OR ("6838203"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 13:51
S21	12616296	not fuel adj cell	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 13:52
S22	3	(cu copper) adj substrate with etch\$4 not S21	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 13:52
S23	50	(cu copper) adj substrate same (cu copper) adj layer same etch\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 13:57
S24	17	("4931410"   "4985750"   "5120572"   "5283206"   "5288456"   "5420069"   "5674787"   "5695810"   "5731245"   "5909637"   "6046108"   "6083829").PN. OR ("6143657").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 14:08
S25	8	("3536546").URPN.	USPAT	OR	ON	2006/04/19 14:12
S26	8	S25 and (cu copper)	USPAT	OR	ON	2006/04/19 14:12
S27	49	("4792378"   "4825809"   "4948623"   "4970093"   "5082542"   "5085731"   "5098516"   "5112448"   "5231751"   "5268034"   "5312509"   "5354712"   "5453124"   "5464656"   "5595606"   "5624498"   "5674787"   "5677244"   "5723028"   "5730801"   "5736191"   "5763953"   "5789321"   "5843516"   "5852088"   "5866237"   "5891348"   "5891513"   "5916359"   "5948467"   "6015917"   "6071809"   "6126806"   "6130161"   "6225221").PN. OR ("6461675"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 14:35

## EAST Search History

S28	1393	(cu copper) adj cathode not S18	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 14:35
S29	64	(cu copper) adj4 (substrate and layer) with cathode not S18	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 14:37
S30	71	(cu copper) adj3 substrate same (cu copper) adj3 layer same cathode not S18	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 14:40
S31	0	(cu copper) adj substrate same (cu copper) adj3 layer same cathode same etch\$4 not S18	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 14:40
S32	0	(cu copper) adj substrate same (cu copper) adj3 layer same cathode same etch\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 14:40
S33	95	(cu copper) adj substrate same (cu copper) adj3 layer same etch\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 14:41
S34	95	("cu substrate" "copper substrate") same (cu copper) adj3 layer same etch\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 14:42
S35	25	("3554803"   "4769296"   "5069985"   "5190834"   "5686197"   "5783324"   "5989741").PN. OR ("6127058").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 15:01
S37	0	etch\$4 with ("cu substrate" "copper substrate") with ("cu layer" "copper layer") and fuel adj cell	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/19 15:02
S38	1	etch\$4 with ("cu substrate" "copper substrate") with ("cu layer" "copper layer")	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/19 15:03
S39	2	"6930391".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/19 15:05
S40	9	("5391517"   "5442235"   "5969422"   "6025275"   "6121149"   "6221763"   "6235406"   "6323128"   "6375708").PN. OR ("6930391").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 16:02
S41	11	S17 and cathode adj electrode adj sheet	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 16:06

## EAST Search History

S42	0	S17 and (panel sheet flat) adj (dmfc direct adj methanol adj fuel adj cell) and (cu copper) adj substrate with layer	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 16:09
S43	3	S17 and (panel sheet flat) adj (dmfc direct adj methanol adj fuel adj cell)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 16:10
S44	0	S17 and (panel sheet flat) adj (methanol fuel adj cell) and (cu copper) adj substrate	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 16:10
S45	94	S17 and (panel sheet flat) adj (methanol fuel adj cell)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 16:16
S46	53	S45 and (cu copper etch methanol)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/19 16:16
S47	21692	(ccl copper adj clad adj laminate)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/20 08:26
S48	18	(ccl copper adj clad adj laminate) with drill\$4 with (sn/pb electroplat\$3 mask)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/20 08:35
S49	31	(ccl copper adj clad adj laminate) same drill\$4 same mask\$4 same etch\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/20 08:35
S50	12	("3161945"   "5372872"   "5571608"   "5719090"   "5773371"   "5919525"   "6030693"   "6329603"   "6613413"   "6722031").PN. OR ("6944946"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/20 08:37
S51	12	("3161945"   "5372872"   "5571608"   "5719090"   "5773371"   "5919525"   "6030693"   "6329603"   "6613413"   "6722031").PN. OR ("6944946"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/20 08:39
S52	1	(pb sn) adj etch adj mask	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/20 08:40
S53	4	(pb sn) with etch adj mask same (cu copper)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/20 08:49
S54	16	(substrate with (glass fiber reinforced polymeric)) same (cu copper) adj layer same (etch mask through holes) same protective	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/20 08:57

## EAST Search History

S55	596	cathode adj layer and (MEA PEM) layer and (intermediate bonding) adj layer and anode adj layer	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/20 08:58
S56	186	cathode adj layer same (MEA PEM) layer same (intermediate bonding) adj layer same anode adj layer	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/20 08:57
S57	313	cathode adj layer and (MEA PEM) layer and (intermediate bonding) adj layer and anode adj layer and (DMFC direct adj methanol adj fuel adj cell methanol)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/20 08:58
S58	137	cathode adj layer same (MEA PEM) layer same (intermediate bonding) adj layer same anode adj layer and (DMFC direct adj methanol adj fuel adj cell methanol)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/20 09:02
S59	0	cathode adj layer same (MEA PEM) adj layer same (intermediate bonding) adj layer same anode adj layer and (DMFC direct adj methanol adj fuel adj cell methanol)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/20 09:02
S60	1	cathode adj layer and (MEA PEM) adj layer and (intermediate bonding) adj layer and anode adj layer and (DMFC direct adj methanol adj fuel adj cell methanol)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/20 09:03
S61	85	(DMFC direct adj methanol adj fuel adj cell methanol) and (cu copper) and (anode cathode) adj sheet	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/20 09:04
S62	26	(DMFC direct adj methanol adj fuel adj cell methanol) and (cu copper) same (anode cathode) adj sheet	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/20 09:05
S63	0	(DMFC direct adj methanol adj fuel adj cell methanol with fuel adj cell) and (cu copper) same (anode cathode) adj sheet	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/20 09:05
S64	15	(DMFC direct adj methanol adj fuel adj cell methanol with fuel adj cell) and (cu copper) same (anode cathode) adj (layer plate)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/20 09:23
S65	2	"4248941".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/23 10:15



## EAST Search History

S66	26	("3230115"   "3525646"   "3719564"   "3974054"   "4190499").PN. OR ("4248941").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/23 13:37
S67	766	429/32.ccls. and layer	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/23 13:37
S68	198	429/32.ccls. and layer and (cu copper)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/23 13:37
S69	25	("3554803"   "4769296"   "5069985"   "5190834"   "5686197"   "5783324"   "5989741").PN. OR ("6127058").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 14:27
S70	188	"429"/\$.ccls. and cathode with layer with copper	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 14:46
S71	1	"6127058".pn. and membrane same solid	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 14:57
S72	31	"429"/\$.ccls. and (glass with fiber with reinforced with polymer\$3) and (substrate current adj collector sheet)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 15:00
S73	8	"429"/\$.ccls. and (glass with fiber with reinforced with polymer\$3) same (substrate current adj collector sheet)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 15:10
S74	41	("3532543"   "3639174"   "3915743"   "4143214"   "4152491"   "4303748"   "4375427"   "4664991"   "4833048"   "4917974"   "4940524"   "4945013"   "5032473"   "5053375"   "5162175"   "5225296"   "5246794"   "5324599"   "5437943"   "5451476"   "5460905"   "5506072"   "5512214"   "5514496"   "5516598"   "5529860"   "5532077"   "5538812"   "5542163"   "5576162"   "5601947"   "5690702"   "5723230").PN. OR ("6194099").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 15:01
S75	73	("3354129"   "4204216"   "4222903"   "4321114").PN. OR ("4375427").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 15:02
S76	0	S74 and S75 and (glass with fiber with reinforced with polymer\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 15:03



## EAST Search History

S77	2	S74 and S75 and ( polymer\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 15:04
S78	1	"4375427".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 15:04
S79	6017	fr-1 fr-2 fr-3 fr-4 fr-5 cem-1 cem-3	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 15:10
S80	3028	(fr-1 fr-2 fr-3 fr-4 fr-5 cem-1 cem-3) and polymer\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 15:11
S81	162	(fr-1 fr-2 fr-3 fr-4 fr-5 cem-1 cem-3) and (glass with fiber with reinforc\$3 with polymer\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 15:11
S82	36	("20040009631"   "20040113283"   "20040121563"   "20040171191"   "20050148160"   "20050181540"   "20050200028"   "6097087"   "6181154"   "6198162"   "6199743"   "6235554"   "6294825"   "6300687"   "6303981"   "6313522"   "6323551"   "6331453"   "6343019"   "6359334"   "6372552"   "6376279"   "6380631"   "6385049"   "6451624"   "6465877"   "6489667"   "6501165"   "6507107"   "6507114"   "6552426"   "6611052"   "6638792"   "6791168"   "6846699"   "6908784").PN. OR ("6995041"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 15:30
S83	26	("6097087"   "6181154"   "6198162"   "6199743"   "6294825"   "6300687"   "6303981"   "6313522"   "6323551"   "6331453"   "6343019"   "6359334"   "6372552"   "6376279"   "6380631"   "6385049"   "6451624"   "6465877"   "6489667"   "6501165"   "6507107"   "6507114"   "6552426"   "6611052"   "6638792"   "6846699").PN. OR ("6949834"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 15:47
S84	68	"pre-preg" with b with stage with resin	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 16:00
S85	49	"pre-preg" with b-stage with resin	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 16:10

## EAST Search History

S86	181	(cu copper) adj layer same (ni near3 au) near3 layer	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 16:11
S87	3	("5804422"   "6074567"   "6582616").PN. OR ("7049178"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/28 16:21